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CERTIFICATE OF MAILING

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Casey Hagopian

[Signature]

PATENT

Attorney Docket No. 20434-736

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application

PATENT APPLICATION

Inventor(s): Mohammed Islam

Art Unit: Not Assigned

Application No.: 09/719,591

Examiner: Not Assigned

Filed: December 12, 2000

Title: Fiber-Optic Compensation For Dispersion, Gain
Tilt and Band Pump Nonlinearity

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

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☒ This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- ☐ (1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --
- ☐ (2) It is being filed within 3 months of entry of a national stage
-- OR --
- ☒ (3) It is being filed before the mail date of the first Office Action on the merits
-- OR --
- ☐ (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

☐ 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:

☐ a certification as specified in §1.97(e) is provided below; or

☐ a fee of \$240.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☐ 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:

A. a certification as specified in §1.97(e) is completed below; and

B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**

C. a fee of \$130.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☒ *Fee Authorization.* The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 20434-736).

Respectfully submitted,

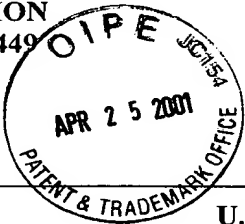
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Dated: 4/20/01

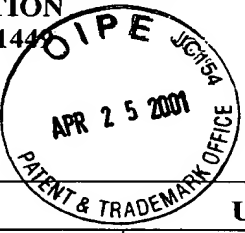
By: [Signature]

Paul Davis, Reg. No. 29,294

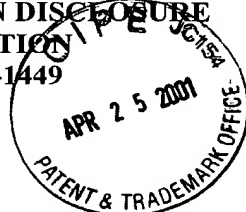
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		FILING DATE 12/12/00		GROUP Not Assigned						
U.S. PATENT DOCUMENTS										
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE				
	4,063,106	12/113/77	Ashkin et al.	307	88.3					
	4,685,107	8/4/87	Kafka et al.	372	6					
	4,740,974	4/26/88	Byron	372	3					
	5,039,199	8/13/91	Mollenauer et al.	359	334					
	5,050,183	9/17/91	Duling, III	372	94					
	5,058,974	10/22/91	Mollenauer	385	27					
	5,117,196	5/26/92	Epworth et al.	359	333					
	5,132,976	7/21/92	Chung et al.	372	6					
	5,134,620	7/28/92	Huber	372	6					
	5,191,586	3/2/93	Huber	372	6					
	5,191,628	3/2/93	Byron	385	27					
	5,218,655	6/8/93	Mizrahi	385	39					
	5,268,910	12/7/93	Huber	372	6					
	5,295,016	3/15/94	Van Deventer	359	347					
	5,323,404	6/21/94	Grubb	372	6					
	5,359,612	10/25/94	Dennis et al.	372	18					
	5,450,427	9/12/95	Fermann et al.	372	18					
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EXAMINER				DATE CONSIDERED						


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	5,473,622	12/5/95	Grubb	372	6	
	5,477,555	12/19/95	Debeau et al.	372	25	
	5,479,291	12/26/95	Smith et al.	359	333	
	5,485,481	1/16/96	Ventrudo et al.	372	6	
	5,497,386	3/5/96	Fontana	372	18	
	5,504,771	4/2/96	Vahala et al.	372	94	
	5,513,194	4/30/96	Froberg et al.	372	6	
	5,521,738	5/28/96	Froberg	359	184	
	5,530,710	6/25/96	Grubb	372	6	
	5,541,947	7/30/96	Mourou et al.	372	25	
	5,542,011	7/30/96	Robinson	385	24	
	5,577,057	11/19/96	Frissen	372	18	
	5,617,434	4/1/97	Tamura et al.	372	6	
	5,623,508	4/22/97	Grubb et al.	372	3	
	5,659,559	8/19/97	Ventrudo et al.	372	6	
	5,673,281	9/30/97	Byer	372	3	
	5,734,665	3/31/98	Jeon et al.	372	6	
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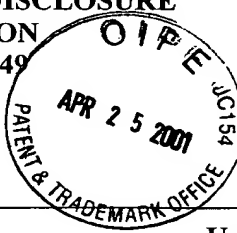
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	5,757,541	5/26/98	Fidric	359	341	
	5,838,700	11/17/98	Dianov et al.	372	6	
	5,841,797	11/24/98	Ventrudo et al.	372	6	
	5,847,862	12/8/98	Chraplyvy et al.	359	337	
	5,861,981	1/19/99	Jabr	359	341	
	5,880,866	3/9/99	Stolen	359	138	
	5,883,736	3/16/99	Oshima et al.	359	341	
	5,887,093	3/23/99	Hansen et al.	385	27	
	5,920,423	7/6/99	Grubb et al.	359	341	
	5,768,012	6/16/98	Zanoni et al.	359	341	
	5,673,280	9/30/97	Grubb et al.	372	3	
	5,659,644	8/19/97	DiGiovanni et al.	385	31	
	5,389,779	2/14/95	Betzig et al.	250	216	
	5,323,404	6/21/94	Grubb	372	6	
	5,226,049	7/6/93	Grubb	372	6	
	5,225,925	7/6/93	Grubb et al.	359	341	
	5,825,520	10/20/98	Huber	359	130	
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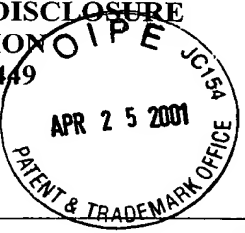
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	5,825,520	10/20/98	Huber	359	130		
	5,798,855	8/25/98	Alexander et al.	359	177		
	5,726,784	3/10/98	Alexander et al.	359	125		
	5,701,186	12/23/97	Huber	359	125		
	5,659,351	8/19/97	Huber	348	7		
	5,600,473	2/4/97	Huber	359	179		
	5,579,143	11/26/96	Huber	359	130		
	5,557,442	9/17/96	Huber	359	179		
	5,555,118	9/10/96	Huber	359	125		
	5,532,864	7/2/96	Alexander et al.	359	177		
	5,504,609	4/2/96	Alexander et al.	359	125		
	5,467,212	11/14/95	Huber	359	168		
	5,416,629	5/16/95	Huber	359	182		
	5,400,166	3/21/95	Huber	359	173		
	5,373,389	12/13/94	Huber	359	195		
	5,331,449	7/19/94	Huber et al.	359	125		
	5,321,707	6/14/94	Huber	372	6		
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	5,321,543	6/14/94	Huber	359	187	
	5,301,054	4/5/94	Huber et al.	359	132	
	5,295,209	3/15/94	Huber	385	37	
	5,293,545	3/8/94	Huber	359	111	
	5,283,686	2/1/94	Huber	359	337	
	5,271,024	12/14/93	Huber	372	6	
	5,257,124	10/26/93	Glaab et al.	359	124	
	5,243,609	9/7/93	Huber	372	9	
	5,222,089	6/22/93	Huber	372	6	
	5,212,579	5/18/93	Huber et al.	359	182	
	5,210,631	5/11/93	Huber et al.	359	132	
	5,208,819	5/4/93	Huber	372	32	
	5,200,964	4/6/93	Huber	372	26	
	5,187,760	2/16/93	Huber	385	37	
	5,166,821	11/24/92	Huber	359	238	
	5,159,601	10/27/92	Huber	372	6	
	5,153,762	10/6/92	Huber	359	125	
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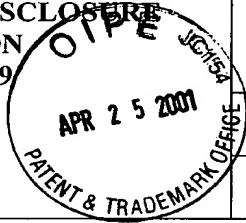
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	5,151,908	9/29/92	Huber	372	6	
	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	
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	Sun, Y. et al., "80nm Ultra-Wideband Erbium-Doped Silicia Fibre Amplifier" ELECTRONICS LETTERS, November 6, 1997, Vol. 33, No. 23, pp. 1965-1967					
	Wysocki, P.F. et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40nm Using Long-Period Grating Filter", IEEE PHOTONICS, Vol. 9, No. 10, October 10, 1997, pp. 1343-1345					
	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY: LETTERS, Vol. 8, No. 7, July 7, 1996, pp. 879-881					
	Yamada, M. et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er ³⁺ -Doped Fiber Amplifier in a Cascade Configuration", IEEE PHOTONICS LETTERS, Vol. 8, No. 5, May 1996, pp. 620-622					
	Ma, M.X. et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8x2.5 Gb/s NRZ Transmission", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 6, June 1998, pp. 893-895					
	Masuda, H. et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 4, April 1998, pp. 516-518					
EXAMINER			DATE CONSIDERED			

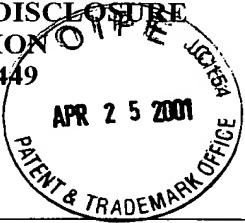
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	Masuda, H. et al., "Wide-Band and Gain Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier", IÉEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No.6, June 1999, pp. 647-649 ✓					
	Kawaii, S. et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification", ELECTRONIC LETTERS, Vol. 34, No. 9, April 30, 1998, pp. 897-898 ✓					
	Kawai, S. et al., "Ultrawide, 75nm 3dB Gain-Band Optical Amplifier Utilizing Erbium-Doped Fluoride Fiber and Raman Fiber", OFC TECHNICAL DIGEST, 1998 ✓					
	Kidorf, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE ELECTRONICS TECHNOLOGY LETTERS, Vol. 11, No. 5, May 1999, pp.530-532 ✓					
	Ono, H. et al., "Gain-Flattened Er3+-Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60-μm Wavelength Region", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 9, No. 5, May 1997, pp.596-598 ✓					
	Hansen, P.B. et al., "529km Unrepeated Transmission at 2.488 Gbit/s Using Dispersion Compensation, Forward Error Correction, and Remote Post-and Pre-amplifiers Pumped By Diode-Pumped Raman Lasers", IEEE ELECTRONICS LETTERS ONLINE NO. 19951043, July 7, 1998 ✓					
	Guy, M.J. et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3μm Using Distributed Raman Amplification", ELECTRONICS LETTERS, Vol. 34, No.8, April 6, 1998, pp. 793-794 ✓					
	Dianov, E.M. et al., "Highly Efficient 1.3μm Raman Fibre amplifier", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 669-670 ✓					
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24μm", ELECTRONICS LETTERS, Vol. 34, No.7, April 2, 1998, pp. 680-681 ✓					
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Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881 ✓							
Masuda, M. et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm", ELECTRONICS LETTERS, Vol. 33, No. 12, June 5, 1997, pp. 1070-1072 ✓							
Yang, F.S. et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification", ELECTRONICS LETTERS, Vol. 33, No. 21, October 9, 1997, pp. 1812-1813 ✓							
Kawai, S. et al., "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 7, July 1999, pp. 886-888 ✓							
Paschotta, R. et al., "Ytterbium-Doped Fiber Amplifiers", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 7, July 1997, pp. 1049-1056 ✓							
Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 μm" ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 680-681 ✓							
Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths", LASER FOCUS WORLD, February 1996, pp. 127-134 ✓							
Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission", OPTICAL SOCIETY OF AMERICA, 1999 ✓							
Hansen, S. L. et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 4, No.6, June 1992, pp. 559-561 ✓							
Spirit, D.M. et al., "Systems Aspects of Raman Fibre Amplifiers", OPTICAL AMPLIFIERS FOR COMMUNICATION, Vol. 137, Pt. J, No. 4, August 1990, pp. 221-224 ✓							
Mollenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173 ✓							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques", OPTICAL SOCIETY OF AMERICA, 1998, Vol. 15, No. 3, pp. 958-963 ✓						
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EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.